

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
January	01/05/2019	1:19 PM	01/05/2019	3:07 PM	Washington:	WECC	Complete loss of Interpersonal Communication and Alternative Interpersonal Communication capability affecting its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	Unknown
January	01/06/2019	3:00 AM	01/09/2019	7:00 AM	Washington:	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	230	230000
January	01/06/2019	5:56 PM	01/06/2019	9:52 PM	California: Sacramento County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	300	90382
January	01/06/2019	1:00 AM	01/06/2019	12:00 PM	Washington: King County, Thurston County, Pierce County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	230000
January	01/07/2019	8:57 PM	01/07/2019	9:32 PM	Michigan:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/09/2019	11:55 AM	01/09/2019	11:56 AM	New Mexico: San Juan County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
January	01/10/2019	12:19 PM	01/10/2019	12:48 PM	Montana: Valley County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	System Operations	11	2
January	01/11/2019	11:36 AM	01/11/2019	12:43 PM	Maine:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/12/2019	11:30 AM	01/13/2019	10:00 PM	Missouri: Jackson County; Kansas: Johnson County;	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	112530
January	01/12/2019	11:30 AM	Unknown	Unknown	Missouri: Nebraska:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	116600
January	01/12/2019	7:20 PM	01/12/2019	9:38 PM	New Hampshire:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/13/2019	5:30 AM	01/15/2019	5:00 PM	North Carolina: South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	133200	Unknown
January	01/14/2019	11:10 AM	Unknown	Unknown	Michigan:	RF	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Actual Physical Attack	Unknown	Unknown

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
January	01/15/2019	8:00 AM	01/15/2019	8:02 AM	Pennsylvania:	RF	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
January	01/16/2019	5:26 PM	01/17/2019	12:19 PM	California:	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	190	126700
January	01/16/2019	5:19 AM	01/16/2019	7:14 AM	Texas: Nueces County;	TRE	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/18/2019	9:54 PM	01/19/2019	12:19 AM	Nebraska:	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	8	Unknown
January	01/23/2019	7:26 AM	01/23/2019	5:05 PM	Colorado: Larimer County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	System Operations	0	0
January	01/24/2019	4:39 AM	01/24/2019	5:16 AM	Ohio:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
January	01/28/2019	1:35 PM	01/28/2019	1:40 PM	Utah: Iron County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Actual Physical Attack	0	0
January	01/29/2019	6:34 PM	01/29/2019	6:36 PM	Louisiana: Washington Parish;	SERC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	Unknown	Unknown
January	01/30/2019	4:30 PM	Unknown	Unknown	Washington:	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
January	01/30/2019	4:23 AM	02/02/2019	9:00 AM	Illinois: Scott County;	SERC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	Unknown	Unknown
January	01/30/2019	9:30 AM	01/31/2019	6:00 PM	Michigan:	RF	Public appeal to reduce the use of electricity for purposes of maintaining the continuity of the Bulk Electric System.	Severe Weather	Unknown	Unknown

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
January	01/30/2019	7:00 AM	01/30/2019	8:08 AM	Illinois: Pike County;	SERC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Severe Weather	Unknown	Unknown
January	01/31/2019	9:33 PM	01/31/2019	9:34 PM	California:	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
February	02/01/2019	11:57 PM	02/02/2019	8:49 AM	Nevada	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	Unknown	1
February	02/01/2019	5:35 AM	02/01/2019	6:10 AM	Massachusetts	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
February	02/02/2019	10:28 AM	02/02/2019	10:29 AM	California	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
February	02/05/2019	6:17 PM	02/05/2019	8:26 PM	California	WECC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.	Severe Weather	42	33200
February	02/07/2019	7:39 AM	02/07/2019	7:40 AM	Arkansas	SERC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	3	3370
February	02/07/2019	8:55 AM	02/09/2019	4:30 PM	Michigan	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	233000
February	02/08/2019	10:00 AM	02/08/2019	10:30 AM	Pennsylvania	RF	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Vandalism	0	0
February	02/08/2019	6:30 PM	Unknown	Unknown	Washington	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	50940
February	02/13/2019	2:48 AM	02/15/2019	12:28 AM	California	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	182	121000
February	02/14/2019	8:50 AM	02/14/2019	12:10 PM	New Jersey	RF	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Vandalism	0	0

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
February	02/14/2019	12:15 PM	02/14/2019	12:16 PM	Utah	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
February	02/19/2019	9:45 AM	Unknown	Unknown	Texas	TRE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
February	02/20/2019	12:50 PM	02/20/2019	1:32 PM	Wisconsin, Minnesota, Iowa, Illinois	MRO	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	740	0
February	02/23/2019	2:05 PM	Unknown	Unknown	Virginia	SERC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	Unknown	Unknown
February	02/24/2019	6:00 PM	02/25/2019	10:00 PM	Pennsylvania	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	132000
February	02/24/2019	11:21 AM	02/26/2019	5:29 PM	Ohio, Virginia, West Virginia	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	118781
February	02/24/2019	6:47 PM	02/25/2019	1:55 PM	Pennsylvania	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	137216
February	02/24/2019	12:31 PM	02/24/2019	2:57 PM	Ohio	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	157274
February	02/24/2019	2:33 PM	02/24/2019	6:03 PM	Pennsylvania	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	94048
February	02/24/2019	8:02 PM	02/25/2019	2:30 PM	Michigan	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	115000
February	02/25/2019	7:45 AM	02/25/2019	6:40 PM	Massachusetts	NPCC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
February	02/25/2019	1:35 PM	02/26/2019	2:50 AM	Connecticut, Massachusetts, New Hampshire, Maine, Vermont, Rhode Island	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	72332
February	02/27/2019	11:25 AM	02/27/2019	5:39 PM	Iowa	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
February	02/27/2019	9:35 PM	02/27/2019	9:45 PM	South Carolina	SERC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
February	02/28/2019	7:02 AM	02/28/2019	7:33 AM	Oklahoma, Arkansas, Louisiana	SPP RE	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
March	03/04/2019	11:39 AM	03/08/2019	4:52 PM	Oklahoma:	SPP RE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
March	03/05/2019	9:12 AM	03/05/2019	6:57 PM	California: Kern County, Los Angeles County; Utah: Salt Lake County; Wyoming: Converse County;	WECC	Cyber event that causes interruptions of electrical system operations.	System Operations	0	0
March	03/13/2019	3:51 PM	03/16/2019	6:00 PM	Texas:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	50	54290
March	03/13/2019	11:29 AM	03/14/2019	9:11 PM	Colorado: Jefferson County;	WECC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	58	58379
March	03/13/2019	5:50 AM	03/13/2019	10:30 AM	Texas: Midland County, Ector County, Tarrant County, Dallas County, Wichita County, Brown County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	154124
March	03/13/2019	3:00 PM	03/14/2019	12:00 AM	Texas: Kansas: Oklahoma:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	Unknown	66000
March	03/13/2019	6:12 AM	03/13/2019	6:13 AM	California: Los Angeles County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
March	03/19/2019	10:53 PM	03/19/2019	10:54 PM	Oklahoma:	SPP RE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
March	03/21/2019	10:00 AM	03/21/2019	10:05 AM	Utah: Salt Lake County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
March	03/25/2019	7:47 AM	03/25/2019	7:48 AM	Oregon: Lane County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Actual Physical Attack	5	Unknown
March	03/29/2019	11:36 PM	03/30/2019	2:00 AM	California: San Diego County, Los Angeles County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Suspicious Activity	0	0

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
April	04/01/2019	2:15 PM	04/06/2019	5:20 PM	Nevada: Carson City, Consolidated Municipality of [19], Washoe County, Churchill County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Actual Physical Attack	0	0
April	04/01/2019	6:51 AM	04/01/2019	7:53 AM	New York: Broome County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
April	04/01/2019	6:51 AM	04/01/2019	7:53 AM	New York: Monroe County;	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
April	04/02/2019	8:33 AM	04/02/2019	9:00 AM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/02/2019	10:15 AM	04/02/2019	10:16 AM	Utah: Salt Lake County;	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
April	04/03/2019	5:15 AM	04/03/2019	12:39 PM	California: Fresno County;	WECC	Fuel supply emergencies that could impact electric power system adequacy or reliability.	Fuel Supply Deficiency	0	0
April	04/04/2019	10:13 AM	04/04/2019	12:08 PM	Montana:	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
April	04/07/2019	1:46 PM	04/08/2019	5:50 PM	Texas:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	537	231956
April	04/10/2019	11:59 AM	04/10/2019	12:00 PM	Virginia:	SERC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
April	04/11/2019	7:48 PM	04/11/2019	8:00 PM	Oregon: Washington:	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
April	04/12/2019	11:20 AM	04/12/2019	12:46 PM	Minnesota: Martin County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
April	04/13/2019	6:15 PM	04/13/2019	11:15 PM	Mississippi: Arkansas: Texas: Louisiana:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	60467
April	04/15/2019	4:35 AM	04/15/2019	2:40 PM	Virginia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	75290
April	04/15/2019	10:00 AM	04/15/2019	2:00 PM	Minnesota:	MRO	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/16/2019	10:30 AM	04/16/2019	11:00 AM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/17/2019	7:38 PM	04/17/2019	11:52 PM	Arizona:	WECC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
April	04/18/2019	8:08 PM	04/19/2019	11:00 AM	Colorado: Clear Creek County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
April	04/18/2019	7:55 PM	04/19/2019	5:29 PM	Alabama: Mississippi: Georgia: Florida:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	116	34695
April	04/21/2019	10:40 AM	04/21/2019	10:45 AM	Utah: Salt Lake County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/25/2019	6:03 PM	04/25/2019	6:32 PM	Arizona: Maricopa County;	WECC	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.	Generation Inadequacy	150	51366
April	04/26/2019	1:00 AM	04/26/2019	1:27 PM	Pennsylvania:	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	7	5830
April	04/26/2019	5:46 PM	04/27/2019	11:49 AM	North Carolina: South Carolina:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	54071

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
April	04/26/2019	3:16 PM	04/26/2019	3:17 PM	Massachusetts: Hampden County[13];	NPCC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	0	0
April	04/28/2019	1:40 PM	04/28/2019	2:49 PM	South Carolina:	SERC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
April	04/28/2019	10:43 AM	04/29/2019	2:06 AM	Ohio:	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
April	04/29/2019	5:17 PM	04/30/2019	9:22 AM	Virginia: Surry County;	SERC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
April	04/30/2019	12:25 PM	04/30/2019	1:11 PM	Indiana:	RF	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
May	05/08/2019	9:22 AM	05/08/2019	9:56 AM	Pennsylvania: Mercer County;	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	29	1
May	05/08/2019	3:50 PM	05/13/2019	12:00 AM	Louisiana: Texas:	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Distribution Interruption	Unknown	65844
May	05/09/2019	5:55 PM	05/11/2019	8:50 PM	Texas: Harris County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	691	238015
May	05/09/2019	7:06 PM	05/10/2019	2:57 AM	Texas: Harris County;	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	0	0
May	05/10/2019	2:00 AM	05/10/2019	12:15 PM	Texas:	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	61008
May	05/11/2019	2:08 PM	05/11/2019	3:00 PM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
May	05/15/2019	12:10 PM	05/15/2019	12:11 PM	West Virginia:	RF	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	Unknown	Unknown
May	05/18/2019	3:45 PM	05/20/2019	4:00 AM	Texas: Ector County, Midland County, Tarrant County, Dallas County, Stephens County, Anderson County, McLennan County, Ellis County, Hunt County, Young County, Bell County, Limestone County, Collin County, Rockwall County, Henderson County, Parker County, Falls County, Freestone County, Kaufman County, Grayson County, Smith County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	68000
May	05/18/2019	1:55 AM	05/18/2019	3:06 PM	Colorado: Wyoming: Nebraska: Utah: Daggett County; New Mexico:	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	30	0
May	05/23/2019	4:55 PM	05/23/2019	11:40 PM	Virginia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	100000
May	05/23/2019	1:11 AM	05/23/2019	12:00 PM	Indiana:	RF	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	0	0
May	05/24/2019	7:28 AM	05/24/2019	8:30 AM	Kentucky: Shelby County;	SERC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
May	05/24/2019	8:09 PM	05/25/2019	2:23 PM	North Dakota: Minnesota:	MRO	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
May	05/24/2019	9:47 PM	05/24/2019	11:58 PM	California:	WECC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system	Severe Weather	20	10961

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
May	05/27/2019	10:07 PM	05/28/2019	3:00 AM	Ohio: Montgomery County, Darke County, Mercer County, Miami County, Greene County;	RF	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather/Transmission Interruption	347	70000
June	06/02/2019	6:19 PM	06/02/2019	8:43 PM	California:	WECC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.	Severe Weather/Transmission Interruption	Unknown	Unknown
June	06/04/2019	10:15 AM	06/04/2019	1:15 PM	Nevada: Washoe County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
June	06/05/2019	8:37 AM	06/05/2019	8:40 AM	Idaho: Bannock County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Vandalism	0	0
June	06/05/2019	10:16 AM	06/05/2019	10:17 AM	South Dakota: Lincoln County;	MRO	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/05/2019	9:46 AM	06/05/2019	12:00 PM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/06/2019	6:09 PM	06/06/2019	6:35 PM	Texas: Bexar County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	55017
June	06/07/2019	2:43 PM	06/07/2019	4:20 PM	Texas: Pecos County;	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	8	1
June	06/08/2019	3:50 PM	06/08/2019	7:40 PM	Texas: Potter County;	TRE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
June	06/09/2019	2:45 PM	06/13/2019	10:30 PM	Texas: Collin County, Dallas County, Denton County, Palo Pinto County, Tarrant County, Ellis County, Williamson County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	558000

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
June	06/11/2019	3:11 PM	06/11/2019	5:00 PM	North Dakota: Mountrail County, Williams County;	MRO	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/11/2019	7:52 AM	06/11/2019	7:53 AM	Utah:	WECC	Physical attack that could potentially impact electric power system adequacy or reliability; or vandalism which targets components of any security systems.	Vandalism	0	0
June	06/12/2019	2:56 PM	06/12/2019	3:50 PM	California: Imperial County, Riverside County;	WECC	Firm load shedding of 100 Megawatts or more implemented under emergency operational policy.	Generation Inadequacy	982	30907
June	06/16/2019	2:00 AM	06/17/2019	11:59 PM	Texas: Dallas County, Tarrant County, Collin County, Denton County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	340000
June	06/16/2019	3:25 AM	Unknown	Unknown	Oklahoma:	SPP RE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Severe Weather/Transmission Interruption	Unknown	Unknown
June	06/18/2019	6:21 AM	06/18/2019	6:40 AM	Washington: Grant County;	WECC	Physical threat to its Facility excluding weather or natural disaster related threats, which has the potential to degrade the normal operation of the Facility. Or suspicious device or activity at its Facility.	Suspicious Activity	0	0
June	06/19/2019	11:00 AM	06/19/2019	11:01 AM	Oklahoma:	SPP RE	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/19/2019	10:30 PM	06/20/2019	7:00 PM	Arkansas:	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	82045
June	06/19/2019	3:00 PM	Unknown	Unknown	Nevada: Clark County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/20/2019	4:11 PM	06/21/2019	12:45 PM	Virginia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	60000
June	06/21/2019	6:36 PM	06/21/2019	7:27 PM	Maine:	NPCC	Complete loss of monitoring or control capability at its staffed Bulk Electric System control center for 30 continuous minutes or more.	System Operations	0	0
June	06/21/2019	7:15 PM	Unknown	Unknown	Kentucky: Tennessee:	SERC	Electrical System Separation (Islanding) where part or parts of power grid remain(s) operational in an otherwise blocked out area or within the partial failure of an integrated electrical system.	Severe Weather	Unknown	50000

OE-417 Electric Emergency and Disturbance Report - Calendar Year 2019

Month	Date Event Began	Time Event Began	Date of Restoration	Time of Restoration	Area Affected	NERC Region	Alert Criteria	Event Type	Demand Loss (MW)	Number of Customers Affected
June	06/21/2019	10:00 AM	06/21/2019	11:00 AM	California: Kern County;	WECC	Damage or destruction of its Facility that results from actual or suspected intentional human action.	Vandalism	0	0
June	06/22/2019	8:46 PM	06/23/2019	12:30 AM	Alabama: Georgia:	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	115	34637
June	06/23/2019	10:00 PM	06/25/2019	11:00 PM	Texas: Dallas County, Denton County, Ellis County, Collin County, Ellis County, Hood County, Johnson County, Kaufman County;	TRE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	265000
June	06/23/2019	5:13 AM	06/23/2019	10:58 AM	Arkansas:	SPP RE	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	47	16199
June	06/24/2019	9:40 AM	06/24/2019	3:17 PM	Oklahoma: Oklahoma County;	SPP RE	Unplanned evacuation from its Bulk Electric System control center facility for 30 continuous minutes or more.	System Operations	0	0
June	06/24/2019	5:30 AM	06/24/2019	8:45 AM	Arkansas:	SPP RE	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	56451
June	06/26/2019	1:58 PM	06/26/2019	2:03 PM	North Dakota: Williams County;	MRO	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	53	0
June	06/28/2019	2:25 PM	Unknown	Unknown	Idaho: Nez Perce County;	WECC	Unexpected Transmission loss within its area, contrary to design, of three or more Bulk Electric System Facilities caused by a common disturbance (excluding successful automatic reclosing).	Transmission Interruption	0	0
June	06/30/2019	3:15 PM	06/30/2019	4:15 PM	New York: Nassau County, Suffolk County;	NPCC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	3189	52498
June	06/30/2019	3:30 PM	06/30/2019	8:30 PM	Illinois: Cook County, DeKalb County, DuPage County, Grundy County, Iroquois County, Ford County, Lake County, Kendall County, Kankakee County, Kane County, Ogle County;	SERC	Loss of electric service to more than 50,000 customers for 1 hour or more.	Severe Weather	Unknown	100000